

## **Charles E. (*Charlie*) Knight**

dob 09 November 1994

### **Drafting skills.**

At about 1957 Charlie was introduced to some professional aspects of Drafting in the "shop" section of his high school and "two point perspective" in his "art" section of the same school.

He learned the aspects of using a "T-Square" and both equilateral and 90degree angled triangles held against a "drawing board" to make truly horizontal and vertical lines.

He learned how to affix a piece of paper to that board and the "title box" requirements of that day.

After Graduation from High School in 1962 he entered into a correspondence school course of study through Famous Artists Schools of Westport, CT. There he learned about the same tools and use of an "erasing shield", pencil sharpening board, french curve, pencil extenders, and accurate measurements in a particular scale so that the finished drawing can be used as a basis for construction of a building, etc.

When Charlie went to Pittsfield to live while attending Berkshire Community College he brought some of his drafting equipment with him, including compass and T Squares and Triangles and drawing boards. He used these tools with other skills learned for planning things.

By the time he was working with the Childhood Lead Poisoning Prevention Program Project in 1979 he used these skills to help design and layout brochures, signage, and other things for this project.

During the time between 1979 and 1996 he used these skills to layout signage and produce print communications for the New Boston Congregational Church.

In 1995 he entered a program of study at the Massachusetts Career Development Institute and learned of a parallel rule and other aspects of drafting there and the ability to layout a print document on a computer using the then Aldus PageMaker and the Quark XPress pagination programs.

In 1997 Charlie entered Springfield Technical Community College, taking many courses and last graduating there in 2015. During this time he learned of using a parallel rule, Architectural Rule and Engineers Rule, and Landscaping and Architectural specialized rules and measuring tools. Also the usage of colored pencils and symbols for architectural, landscape, and construction people to be able to read the drawings and then produced the building from the same. During this time he is introduced to Revit and AutoCad by AutoDesk as software to do these same skills to make such B.I.M. compliant drawings. Here he focused also on the value of isometric drawings in and other than two dimensional representations of a three dimensional object to be constructed and how to draw non-visible edges.

In 2017 Charlie was part of a Green Skills and Citizen Scientist program that taught the usage of iTree, a program to help make charts to tell of the value of trees, all such done "online".

In 2018 Charlie was part of a Construction Skills program that taught also the usage of these same drafting tools to design and layout construction and metal fabrication drawings and designs.

So for at least 55 years he has been using drafting skills to put down on paper what is expected to be designed and then constructed. It is in the "putting on paper" that design changes often are recognized.